

Technical Information Sheet

Viscacid® Epoxy Injection Resin 100

Art.No. 0944

Solvent-free, especially low viscosity epoxy resin system, two-component

Property profile:

Because of its low viscosity, good adhesional/tensile and shear strength combined with outstanding capillary rise, Viscacid Epoxy Injection Resin 100 is suitable for pressure injection work as well as for pressureless injections of all types.

Range of use:

To be used for pressure injection of cracks in tendon coupling point areas on concrete building elements for frictional coupling. Also for closing cracks in concrete or screed surfaces and for cementing hollow areas in bonded screeds

Characteristic data of the product:

	Comp. A	Comp. B	Mixture
Viscosity (20° C):	550 mPas	75 mPas	100 mPas
Density:	1.13 g/cm ³	0.87 g/cm ³	1.07 g/cm ³
Flash point:	142° C	108° C	120° C
Odour:	neutral	amine-like	slightly amine-like

Mixing ratio Comp. A : Comp. B:

100 : 28 parts by weight
100 : 36 parts by volume

Pot-life (1 kg mixture):

90 min. at + 8° C.
60 min. at +23° C.
40 min. at +28° C.

Higher temperatures and larger amounts reduce working time, lower temperatures lengthen the time.

Tensile strength (23°C): 51 N/mm² after 7 days
Adhesional/tensile strength (23°C): 7.4 N/mm² after 7 days
Shear strength(23°C): 16.8 N/mm² after 7 days

Substrates:

Clean the length of the crack by blowing out with oil-free compressed air. On vertical surfaces the crack should be tamped with Viscacid Epoxy Restoration Mortar. Drill bore

holes to hold the injection packers along both sides the length of the crack, staggered at intervals half the building element thickness, at an angle of 45° and at a distance half the building element thickness to the middle of the crack. Bore hole depth should be at least 70% of the building element thickness, bore hole diameter respective to the packers used. Place the packers in position and fix.

Working instructions:

Both components are packaged in special containers in the proper mixing ratio. The production of the mixture should be carried out according to the DBV Code of Practice "The use of cold-cured resins in concrete construction - part 3.2 - Using cold-cured resins on concrete". The hardener component (B) should be completely added to the resin component (A). For smaller amounts (up to approx. 10 litres), use a mixer on a counter-current principle. Drills with a max. speed of 400 rpm are suitable for this purpose.

Observe the minimum mixing time of 2 minutes. The larger the amount to be mixed, the longer must be mixed. The formation of streaks indicate insufficient mixing. Lesser mixed parts on the edge and bottom of the container as well as material on mixing tools should be scraped off and added to the mixture. Afterwards, the mixed material should be filled into a separate container and mixed again. It is then ready to use.

Application of the injection material is carried out with an injection pump with a pressure gauge and adjustable pressure. Injection direction on vertical surfaces: from the bottom to the top. The next highest packer serves to de-air and as a control opening. On horizontal surfaces the work is carried out in the same manner. After the injection material has hardened, remove the packers and close the bore holes with Viscacid Epoxy Repair Mortar.

The ambient temperature and that of the substrate should not fall below +8°C.

Tools and cleaning:

Drill with a counter-current mixing tool, injection equipment, hand lever pump, percussion drill.

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Clean tools and any spilled material immediately while fresh with V 101 thinner.
Wear protective gloves!

Shelf-life: At least 9 months in original, closed and unmixed containers, stored frost free.

Packaging, application rate and storing:

Packaging: 1 kg and 5 kg tin containers

Application rate: 1.1 kg/litre cavity volume.

Safety, ecology, disposal:

Further information concerning safety during transport, storage and handling as well as for disposal is found in the latest Safety Data Sheet.

GISCODE: RE 01

The statements above are compiled from our field of production and according to the latest technological developments and application techniques. Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet.

Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid.

With the publication of this Technical Information Sheet all previous editions are no longer valid.